

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 January 2004 (29.01.2004)

PCT

(10) International Publication Number  
**WO 2004/009793 A3**

(51) International Patent Classification<sup>7</sup>: **C12Q 1/00**,  
1/48, C12P 1/00, 21/06, 19/18, C12N 9/00, 9/10, 9/12,  
A23J 1/00

(21) International Application Number:  
PCT/US2003/023155

(22) International Filing Date: 23 July 2003 (23.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/398,156 23 July 2002 (23.07.2002) US  
60/424,894 8 November 2002 (08.11.2002) US

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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## Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

## Published:

— with international search report

(88) Date of publication of the international search report:  
13 May 2004

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: SYNTHESIS OF GLYCOPROTEINS USING BACTERIAL GLYCOSYLTRANSFERASES

(57) Abstract: This invention provides nucleic acid and amino acid sequences of fucosyltransferases from *Helicobacter pylori*. The invention also provides methods to use the fucosyltransferases to synthesize oligosaccharides, glycoproteins, and glycolipids.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/23155

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/00, 1/48; C12P 1/00, 21/06, 19/18; C12N 9/00, 9/10, 9/12; A23J 1/00  
US CL : 435/4, 15, 41, 68.1, 97, 183, 193, 194; 530/412

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 435/4, 15, 41, 68.1, 97, 183, 193, 194; 530/412

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,399,337 B1 (TAYLOR et al.) 04 June 2002 (04.06.2002), Discloses polypeptide 90-100% identical to SEQ ID NO:2 and 6, see SEQ ID NO:2.	1-8
X,P	US 6,534,298 B2 (TAYLOR et al.) 18 March 2003 (18.03.2003), Discloses polypeptide 90-100% identical to SEQ ID NO:2 and 6, see SEQ ID NO:2.	1-8
X,P	US 2002/0164749 (TAYLOR et al.) 07 November 2002 (07.11.2002), Discloses polypeptide 90-100% identical to SEQ ID NO:2 and 6, see SEQ ID NO:2.	1-8
X,E	US 2003/0166212 (TAYLOR et al.) 04 September 2003 (04.09.2003), Discloses polypeptide 90-100% identical to SEQ ID NO:2 and 6, see SEQ ID NO:2.	1-8
X,E	US 2003/0166211 (TAYLOR et al.) 04 September 2003 (04.09.2003), Discloses polypeptide 90-100% identical to SEQ ID NO:2 and 6, see SEQ ID NO:2.	1-8

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☐ See patent family annex.

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Date of the actual completion of the international search

08 January 2004 (08.01.2004)

Date of mailing of the international search report

19 FEB 2004

Name and mailing address of the ISA/US

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**INTERNATIONAL SEARCH REPORT**

PCT/US03/2

**Continuation of B. FIELDS SEARCHED Item 3:**

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